

THE TECH

Boston, Massachusetts.

December 5, 1895.

Volume XV.

Number 10,

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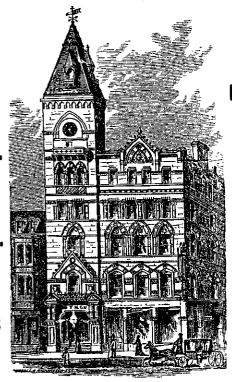
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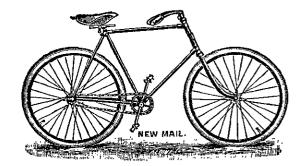
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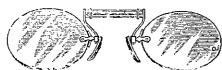
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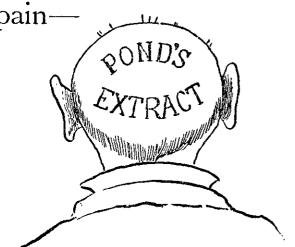
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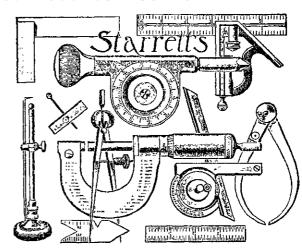
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THE TECH

VOL. XV.

BOSTON, DECEMBER 5, 1895.

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THE TECH

Published every Thursday, during the college year, by students of the Massachusetts Institute of Technology.

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EDWARD ARTHUR BALDWIN, '96.

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For the benefit of students THE TECH will be pleased to answer all questions and obtain all possible information pertaining to any department of the College.

Contributions are requested from all undergraduates, alumni, and officers of instruction. No anonymous manuscript can be accepted.

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T is much to be hoped that Ninety-six will set a worthy example to future classes in the methods of electing Class-day officers—methods in which wire-pulling and machine politics are conspicuous by their absence. This devoutly to be wished consummation can only be ob-

tained by the general arousal of an active and intelligent public spirit among its members. Rumors of skillful electioneering, present and to come, are already in the air, and in order to get the best results it is necessary that every man should be on his guard. Eternal vigilance is the price of—a number of desirable things, including good Class-day officers.

When a class arrives at that eventful day when it presents to the world (a small world, to be frank, made up largely of admiring friends and relatives) the choicest fruits of its wit, and wisdom, and eloquence, the men who represent it should be simply the men best fitted for the position. What does it matter whether the orator, for instance, is a Civil, a Chemist, or an Electrical, a fraternity man or an anti-fraternity man; one can pull wires, by the way, as well as the other. Sometimes better, we should say, risking the suggestion of a slight Gaelicism.

Is not the honor of your class more to be considered than that of the small coterie to which you are attached by the same social or technical ties? That a small clique with a determined purpose can accomplish results which do not in any way represent the feelings of the community at large, is well shown in most any of our ward caucuses.

To guard against such misrepresentation it is necessary that every Senior should take a keen interest in his class affairs, and that he should think for himself, unselfishly and independently, unbiassed by pre-election courtesies and such minor considerations, looking only to the best interests of his class in its hour of triumph.

HE twenty-sixth annual report of the Massachusetts State Board of Health contains an account of a very interesting investigation made by Professor Sedgwick, as State Biologist, on the cause of a recent outbreak of typhoid fever in the city of Marlborough. The peculiarly limited area in which cases occurred enabled him to reassure the public after a few hours as to the water supply, about which great anxiety had been

felt. He next turned his attention to the milk service. Forty-nine of the fifty cases were found to be in households supplied by a local creamery with skimmed milk. One case occurred in the creamery itself. The subject was found to have been the driver of the milk wagon, and it is probable that the epidemic was propagated by him. This is the first case on record in America where an epidemic of typhoid fever has been traced to the use of infected skimmed milk.

6 HOSE interested in the future of tennis at Technology are to be congratulated on having at last obtained some outdoor courts. Through the efforts of Dr. Williams in the Corporation, and the assistance of Professor Burton, the ground behind the Architectural Building has been obtained, and is now being leveled. Four gravel courts will be finished by the Spring, if the men who have thus far had the matter in charge are backed up by the Institute at large. A Constitution has been prepared by the Executive Committee, and a meeting will be called within a few days for the purpose of organization. joining the Association at the first meeting will be charter members, and it is hoped that the success of the plan will be guaranteed by a large attendance.

E are glad to learn of the complete vindication of one of the members of the Senior Class who was recently accused of a petty theft, and who, owing to the mysterious actions of the plaintiff, has been before the public eye for some time. From the first it seemed absurd that a man who had possessed an enviable reputation during his three years' connection with the Institute, could be capable of such an offense, and it is with pleasure that we find that after having learned the evidence in the case, the judge expressed the opinion that no warrant against the accused should have been issued.

ERHAPS enough has been said in contradiction of the misstatements recently made in one of the daily papers concerning "severe training at Technology." It is with much pleasure, however, that we reprint a portion of a very appreciative editorial in the *Transcript* of November 26th.

"An ignorant impression is certainly entertained, which is not in the least true, that parents may apprehend an excessive pressure upon their children to maintain their standing in any of its excellent courses. On the contrary, many of the best students find ample time for a proper indulgence in athletics and in literary and social diversions.

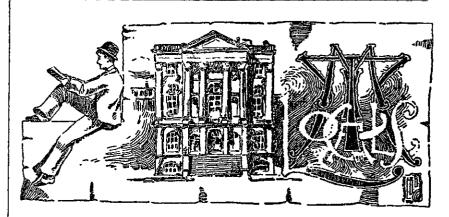
"An equally unfortunate line is pursued when such an institution as Technology is exclusively set forth as an employment bureau, to be sought only by 'grinds,' who emerge half dead, surrounded by the corpses of a vast majority of unsuccessful competitors, to receive the pledged reward of a certain and comfortable berth somewhere! Of course it is true that such an education implies many opportunities, and that they may be properly and reasonably contemplated. Yet the liberal education (which may be so called as fitly as that of Harvard) of the University of Technology is largely sought for its own sake and for the pure pleasure of its studies. Many of its students are content, without anticipation, to tread the pleasant paths of knowledge or to look forward only to the pittance which rewards the single-minded devotee of natural science,—far less sordid than many of those who are eager for the rewards of the 'professions' in sister institutions.

"With a distinct scholastic atmosphere of her own, under the guidance of many who make of science no mercenary mistress, in the calm and delightful pursuance of original investigation, Technology has become alma mater to hundreds who spend their student days under her wing, and look back to them when they depart with delight and enthusiasm." The recent meeting of the Walker Club during which the proposed English play was under discussion, Professor Bates pointed out the fact that the success of the production would depend upon the laying aside of all those personal prejudices and vanities which so often crop out at amateur dramatic rehearsals, and impressed upon his hearers the necessity of entire subordination, on the part of the players, to the wishes of the "coach."

These words, coming as they did from one whose experience in dramatic work is so unquestionable, were not untimely, and although their force may not be so apparent at present, "to be forewarned is to be forearmed," and we trust that when the cast is made up its members will recall the Professor's apt quotation, "The play's the thing."

year at Technology must needs be reprimanded for breaking apparatus left upon the table of the lecture room where its class meetings were held. Such discourteous proceedings are especially to be condemned when, as is often the case, the room is put up at the disposal of the students at a considerable inconvenience to the officers in charge. We hope that, out of respect to Technology and to themselves, the members of the class will conduct themselves in a manner more creditable to their sense of decency and gratitude.

Ta meeting of the Board of Editors of The Tech held November 25th, the resignation of Mr. E. Arthur Baldwin, '96, as Assistant Editor in Chief, was accepted, and Mr. Sheldon L. Howard, '97, was elected to fill the vacancy. Upon the acceptance of the resignation of Mr. Howard as Secretary, Mr. Raymond S. Willis, '98, was chosen Secretary of the Board.



The Chemical Library is now under the supervision of the General Librarian.

Huntington Hall was provided with a new system of ventilating pipes during the vacation.

Howell Fisher, '98, has been appointed to the Sophomore Cane Committee vice C. E. A. Winslow, resigned.

On the Wednesday before Thanksgiving Mr. C. Bernard was presented with a statuette of Venus de Medici by one of his students.

A case in the General Library has been set apart for the reception of all new works on technical subjects that are sent to the Institute for inspection.

The proof of the photograph of the Freshman football team taken last week was so unsatisfactory that it is probable that another sitting will be made.

F. E. Underwood, '97, the recently elected captain of the 'Varsity eleven for the season of '96, gained his first knowledge of the game at the Hartford High School.

The vacancy on the Cane committee of '98, caused by the resignation of Mr. Winslow, has been filled by Mr. Fisher. Mr. Gardner was chosen chairman of the committee.

Captain Bigelow is contemplating the formation of "field music" for use on special occasions. There will be seven drums, eleven trumpets, and seven fifes, if good players can be secured.

Scotch airs have crept into the repertoire of the Glee Club this year, and these substan-

tial melodies added to the usual number of funny selections will prove a great success at the coming concerts.

Owing to the poor attendance at rehearsals, the Banjo Club is not in its old time form this year. It is to be regretted that a sufficient number of enthusiastic players cannot be found who are willing to keep this club up to its former excellent standard.

The attention of those taking lectures in Military Science is called to the fact that hereafter the doors of Huntington Hall will be closed promptly at five minutes past eleven. On Fridays the door of the Armory will be closed at five minutes after two.

At the regular meeting of the Biological Club on October 19, a paper on "The Reduction of Chromosomes in Living Organisms," was read by Mr. C. W. Perley, '96. Professor Sedgwick concluded with an account of "A Fresh-Water Biological Laboratory."

At the meeting of the Biological Club held on the 26th of this month, Mr. Prescott spoke on "The Proteids of Wheat, Rye, and Barley," and Professor Sedgwick discussed some recent botanical papers entitled "Dissemination by Joints and Spines," "The Origin of Starch Grains," and "The Structure of the Bacterium Cell."

Le Moyne, our old guard, played a great game of football in Chicago Thanksgiving day, on the B. A. A. team, against the Chicago Athletic Association. He played against Heffelfinger, and although he was injured severely stayed in the game until carried off the field. Mr. Elliot Sturgis, '84 of the Institute, umpired the game.

The rumor that the Freshman football team is to play the Harvard Freshmen has caused quite a stir in athletic circles. We should be glad to see such a game played, as it is evident from the showing made at the Sophomore-Freshman contest that our first-year men

are capable of playing good football, and if forced could give a much stronger team a hard game. The announcement of a course of lectures by Professor Despradelle on contemporary French Architecture is arousing much interest among architects in this vicinity. Professor Despradelle is one of the celebrated Beaux Arts architects, and is distinguished for having received the award of the Prix de Rome. This course, which is part of the Lowell Free Lecture Series, is to be given in French, and illustrated by stereopticon views.

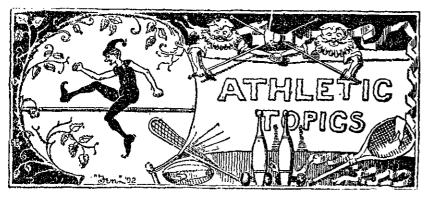
The Architectural, Physical, and Chemical Libraries of the Institute have materially enlarged by the gift of Mr. Thomas Gaffield, a member of the Society of Arts, of two hundred and sixty volumes pertaining to the making of glass. Some of the books are extremely valuable, and contain very rare pictures of the different stages of glass making. Two of the most expensive volumes contain the history of the development of the manufacture of stained-glass windows.

A meeting of the students interested in the English Play which the Walker Club proposes to present during Junior week, was held in the Course IX. reading room on November 26th. The Chairman, Mr. C. W. Bradlee, '97, introduced Professor Bates, who spoke at length upon the requisites for the proper production of a play. He advised the presentation of two short comedies in place of an old English drama, and recommended that a professional coach be secured, who should have carte blanche in selecting and drilling the players. At the close of the meeting some twenty-five men signified their willingness to aid the Club in carrying out its projects, and as many of those enrolled have had previous experience in amateur dramatics, the outlook is decidedly encouraging.

Every student in military drill has been requested to furnish the military department

with information as to his military service prior to his admission to the Institute, or to the commencement of the present term. This information has been obtained from all excepting two, and has been tabulated to show the number of students who have held certain grades, and the number that have served certain periods irrespective of grade. The result of the reports is as follows:—

TABLE OF P.	REVIO	US G	RADE	ES.		
Field and Staff officers			•		. 9	9
Company officers .	•	•	•	•	. 34	1
Non-commissioned off	icers			•	. 27	7
Privates	•		•		. 56	5
					126	5
No previous service	•	•			. 133	3
Not classified	•	•	•		. 2	2
						-
					261	Γ
TABLE OF PREVIOUS SERVICE.						
One year or less .	•		•		. 27	7
More than one, and not more than two years. 26						
More than two, and no	t mor	e tha	n thr	ee ye	ars 36	5
More than three years	•	•	•	•	. 36	5
					125	5



At the annual meeting of the 'Varsity Football Team held in Room 11, Rogers, on Monday, November 25th, at 4.15, F. E. Underwood, '97, of Auburndale, was elected captain for the season of '96. A unanimous vote of thanks was extended by the team to both Manager Mansfield and Captain Manahan for their untiring efforts during the past year. The team has adopted a new style of sweater, which will consist of a gray body with a red collar.

The Annual Indoor Class Championship Games will be held in the Gymnasium, Saturday evening, December 14th, at 7.30 o'clock.

The events will be as follows: 35-yard dash, standing broad jump, shot put, rope climbing, 35-yard low hurdles, running high jump, potato race, wrestling match. No one will be allowed to compete unless a member of the Athletic Club. Class captains must hand all entries to H. P. Beers on or before December 11th.

Twas the maid who to bloomers aspired
Whose riding was greatly admired,
Till a cabby one day
Knocked her into the clay—
Then the bloomers and bike were re-tired.
WHITE.

APPLIED MATHEMATICS.

"You must set this matter right;
What time did the Sophomore leave,
Who sent his card last night?"

"His work was pressing, father dear, And his love for it was great; He took his leave and went away Before a quarter of eight."

Then a twinkle came to her bright blue eye,
And her dimples deeper grew,
"'Tis surely no sin to tell him that,
For a quarter of eight is two.

-Lehigh Burr.

The earth is kissed with brown, When the amber leaves come down.

From the forehead of the greenwood They are gone,

And they shine no longer emerald In the sun;

And the winds that once did blow Very soft and very low

On the greenwood's head, Tear her brow-set wreath away, And in wanton mood they say

"Buds are gone, Well-a-day, Bloom is dead."

Till the mountains crumble down, This shall be,

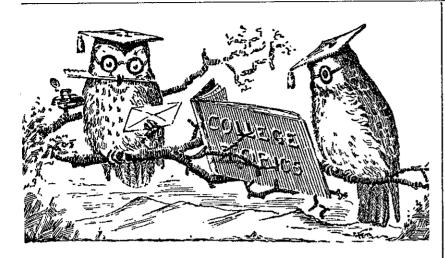
Till the rocks and sands dissolve In the sea;

So when leaves are dead and dry, And must thinly buried lie

Through the frosty blast,
To our hearts we let them cling,
Where their old-time whispers bring

Memories
Of the spring

In the past. — Yale Courant.



Yale has a golf club of 150 members.

Columbia College has a library of 203,000 volumes.

Highlands is eligible for another year as pitcher of the Harvard baseball team.

The income of the University of Chicago for the coming year is expected to reach \$600,000.

The Heidelberger Zeitung published an announcement of the result of the Harvard-Princeton football game.

Five members of the Yale football eleven will graduate this spring, while Princeton will lose only one man, Captain Lea.

Harvard has not as yet chosen any captain for its ball nine. Scannel will probably be elected to that position in the spring.

Among the recent social events at Harvard was a dinner given by Prof. Charles Eliot Norton in honor of Mr. Rudyard Kipling.

The Rugby football championship of Canada was won by the University of Toronto, which defeated Montreal by the score of 20 to 5.

The Yale-Harvard debate will be held in New Haven about the first of May. Yale will choose the question, and Harvard has the choice of sides.

At a mass meeting of the Williams students, a test ballot showed that the feeling in favor of an honor system in examinations was almost unanimous.

The New London Board of Trade is making an effort to have a boat race arranged between Yale and one of the English University crews for next year at New London.

The increase of colleges in America during the last hundred years has been marvelous. Before the breaking out of the Revolutionary War nine were in existence, and the total number is now 451.

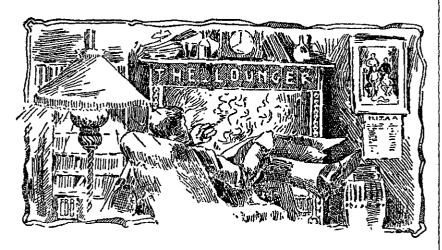
The Yale football eleven has decided to take a southern trip after the regular season in the northern states is ended. A game has been arranged for Christmas Day in Atlanta with the University of Georgia.

Fifty-four thousand dollars was spent at Yale last year on athletics. Of this amount ten thousand dollars was subscribed by the undergraduates, and the remainder was raised chiefly by the proceeds of baseball and football games.

Columbia College has been challenged by the universities of Minnesota and Wisconsin to boat races next year. Minnesota will come East in the spring, paying all expenses, if Columbia will go West the following year. Columbia will probably accept, if the events do not interfere with the tri-collegiate race at Poughkeepsie.

An instrument to test the speed of a base-ball has recently been used at Princeton. By means of an electrical attachment in the pitcher's hand and another in the catcher's, the exact time is read from a chronoscope. It was found that Altman pitched a ball 60 feet in .6 of a second, and that Bradley threw a ball in .59 of a second.

A woman has been elected to the college board of trustees at Cornell. President Schurman says: "It is a courteous recognition of woman's right to govern as well as to study at Cornell; and if it shall have the effect of leading women to interest themselves in a practical way in promoting the development of the university, the precedent is pretty certain to be followed in future years."



THE Lounger is glad to announce his happy survival of another Turkey Day, and to welcome the coming weeks as a period of rest before the next vacation. The appreciative student—in which category the Lounger often finds himself-has, of course, marked the vouchsafing of an extra holiday at Christmas, and has made himself joyful accordingly. For the flighty youth who regards college life merely as a series of vacations, interrupted at stated intervals by more or less disagreeable periods of labor, the tiny holiday time cannot be so precious. To the hard worked but ever cheerful man, however, welcome indeed must have been this second announcement of an extra day, like unto that which last year caused THE TECH'S talented snake editor to burst forth into verse at the head of the Christmas editorial. That piece of verse nearly took away all the pleasure of the Lounger's vacation; but that is long ago, now, so he will not consider it further.

At all events the Lounger is glad to see our Faculty progress in the matter of seasonable holidays. Whether their progressiveness is due to any efficient prodding from the rear is, of course, an aspersion which the Lounger would be the last to hint; but, as he has said, he commends them for their liberality, and, to reassure them for their possible haste, let him urge that in all probability Technology will continue to flourish, and just as many men will be graduated in '96 as if the extra holiday had not been instituted. As the Lounger may have said in the past, he is no rash devotee of precipitant innovations; but each lengthening of our meager term-time holidays, and the establishment of new periods in which to cultivate "days of Grace" and other things, ably alluded to in the Thanksgiving number, are acts of charity to which he can extend only his unqualified approbation.

The Lounger has been concerned to note an air of trepidation now prevalent in the corps of instructors,

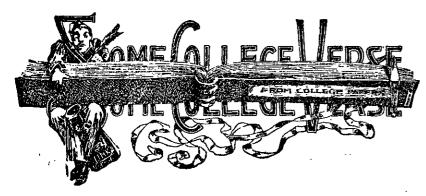
the more so because he feels in a measure responsible. He has had the pleasure of perusing and revising a few of the jokes about to be sprung in the coming minstrel show, and he has felt it part of his friendly duty to the profs to acquaint them with their status in these witticisms. The Lounger is no alarmist, and would be the last to throw a pall over the anticipatory enjoyment of Christmastide; but he feels, nevertheless, that a note of warning should be sounded, and that all profs, instructors, janitors, office boys, and other functionaries should be advised, kindly and confidentially, to see that their sensibilities are suitably case hardened before the date for the show. The Lounger undertakes this task from no desire to aggrandize himself at anyone's expense, but having viewed the efforts, for this occasion, of the grind fiend, and having, also, contributed to the stock one or two modest attempts of his own, and, moreover, realizing fully the keen personal interest which surrounds the whole business, he has persuaded himself that the only fair thing was to make this brief announcement. Selah!

With the advent of the interlocutor and the end man, and the approaching din of tambourine and bones, the retiring modesty which has overtaken the French and German societies has become painfully evident. The Gallic crowd, it is true, have assumed a semblance of life in the hilarity of their evening feasts, but the devotees of beer mug and pretzel appear to have suffered complete death. The expenses of the histrionic efforts of last spring have weighed heavily upon both organizations, and have evidently discouraged their members most heartily. The Lounger hopes, however, that this lamentable state may not endure long, and that enough interest may be aroused to insure the activity of one organization, if not the resuscitation of the other.

what?

She gave me a glance—
What will rhyme with amiss?
There is little romance,
I must own, in a glance;
Yet it was an advance,
And I gave her for this—
When she gave me a glance,
What will rhyme with amiss?

-Princeton Tiger.



SUNSET.

The golden glory quivers on the lake;

A robin's vester note sounds clear and true;

Beyond the far hill line, one long, pale cloud

Lies like a thought of God across the blue.

— Wellesley Magazine.

ONE THING LACKING.

He was versed in all Philosophy, He understood Theosophy; Greek, Latin, Hebrew, Sanscrit, To him were merely play. In Conchology, Philology, And else in Egyptology, Biology, Psychology, You'd find he was au fait. He never used profanity, Was noted for urbanity, Could play a game of billiards Or pitch a ton of hay. He could sing like Campanini, He could act like great Salvini, And was often called upon To lead Y. M. C. A. But celebral capacity And unexcelled sagacity Cannot protect the victim Of fickle Fortune's frown. And when the girls, both great and small, Learned that he couldn't play football, They gently then, each one and all, But firmly, turned him down.

INDIAN SUMMER.

As frosty age renews the early fire,
Whose eager flame in hazy warmth appears,
And brings once more across the shadowy years
The vanished dreams that kindle and inspire;
As time repeats the hour of young desire
In smoother laughter and more tranquil tears,
And childish pleasures mixed with needless fears,
Stir through the pulse of the withered sire—
So when November, sharp with frost and sleet
And moaning winds about the rocky height,
Has reaped the shining forest to his hand,
The charm of spring returns in mellower heat
To veil the leafless hills in mellower light,
And broods in peace above the naked land.

-Lehigh Burr.

-The Lafayette.

"FOUNDATIONS OF BELIEF."

- "Shall we ever get through?" sighed a Freshman, With the thought of the flunk notes galore,
- "Shall we ever get safe to that haven Of rest—the year Sophomore?"

A comforting classmate made answer,
"Of course we are safe. Don't repine.
Take courage. Go quick, read your Bible,
We belong to the ninety and nine."

-The Vassar Miscellany.

LOVE'S LOGIC.

"Out of sight is out of mind,"
Yet "Absence makes the heart grow fonder;"
How can this paradox be true?
Does Dolly love me still, I wonder?

If absence makes the one forget,
And makes the other's love grow stronger,
And I to Dolly still am true,
Then Dolly's true to me no longer!

But both, I'm sure, cannot be true,
Or else were Reason naught but Folly:
And I'll believe her heart is mine
As much as mine belongs to Dolly!

-Harvard Advocate.

AN ALL-AROUND MAN.

In the class room while students
More brilliant are known,
He finds no great hardship
In holding his own.

On the gridiron and diamond
With victories sown,
There too he is in it,
And holding his own.

And now in the evening,
When daylight has flown,—
But words are too feeble,
He's holding his Own.

-The Lafayette.

KNIGHTED.

All night within the dim cathedral choir

He watched beside his armor; vigil kept

With prayer and fasting, while his fellows slept;

And as the gray dawn touched the cross-capped spire

There came to him a vision. Holy fire

Of pure devotion up within him leapt,

The song of service through his spirit swept,—God's accolade bestowed on lowly squire.

When the sun shone across the world's new day

They found him at the altar. Not a trace
Of struggle on the fair uplifted face;
And as they bore him home they softly trod,
With reverent feet, as those who go to pray.

He died a squire. Asise, O knight of God!

— Wellesley Magazine.



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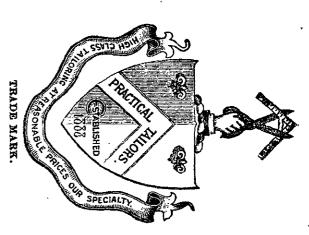
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